AK

Notice of Allowability	Application No.	Applicant(s)	
	10/679,480	TAKAGI ET AL.	
	Examiner	Art Unit	
	Barbara Summons	2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the amendment received 24 February 2005*.

2. ☒ The allowed claim(s) is/are *1-5*.

3. ☒ The drawings filed on *10/7/03 and 2/24/05 (replacement sheets)* are accepted by the Examiner.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☒ All b) ☐ Some* c) ☐ None of the:
      1. ☒ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other *Title change*.

REASONS FOR ALLOWANCE/COMMENTS

Drawings

1. The drawings were received on 2/24/05. These drawings are approved.

Title Change

2. It should be noted that the Title of the Invention has been changed to:

- - Surface Acoustic Wave Resonator With An Interdigital Transducer Divided Into Regions Having A Different Fixed Pitch - -.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

The Examiner agrees with Applicants' arguments at least that Takagi '339 is a two-port resonator having a different structure than the invention and so may not disclose the "vibration displacement envelope amplitude..." feature as recited (claim 1, the last six lines thereof). Additionally, the "regions" 102, 103 and 104 of Takagi '339 (see Fig. 1) are actually three separate interdigital transducers (IDTs) rather than an IDT divided into three regions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bauer et al. U.S. 6,420,946 discloses varying the pitch in a single IDT in the outer end areas adjacent to the reflectors (see Fig. 4b and col. 7, lines 11-19). However, the pitch varies continuously (see col. 7, lines 30-36) such that there is not a region with a "fixed pitch".

Takamine U.S. 6,583,691 discloses a surface acoustic wave resonator filter with a center IDT 6 divided into three regions and the regions N2 and N3 at the outer ends thereof having a smaller fixed pitch than the center region. However, due to the fact that this is a longitudinally coupled resonator filter with three IDTs, it is unclear if it is capable of disclosing the "vibration displacement envelope amplitude..." feature as recited (claim 1, the last six lines thereof).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara Summons whose telephone number is (571) 272-1771. The examiner can normally be reached on M-Th, M-Fr.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bob Pascal can be reached on (571) 271-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

bs
May 11, 2005

Barbara Summons

BARBARA SUMMONS
PRIMARY EXAMINER

Approved for Entry 5/11/05 BS

OIPE FEB 24 2005 PATENT & TRADEMARK OFFICE JC98

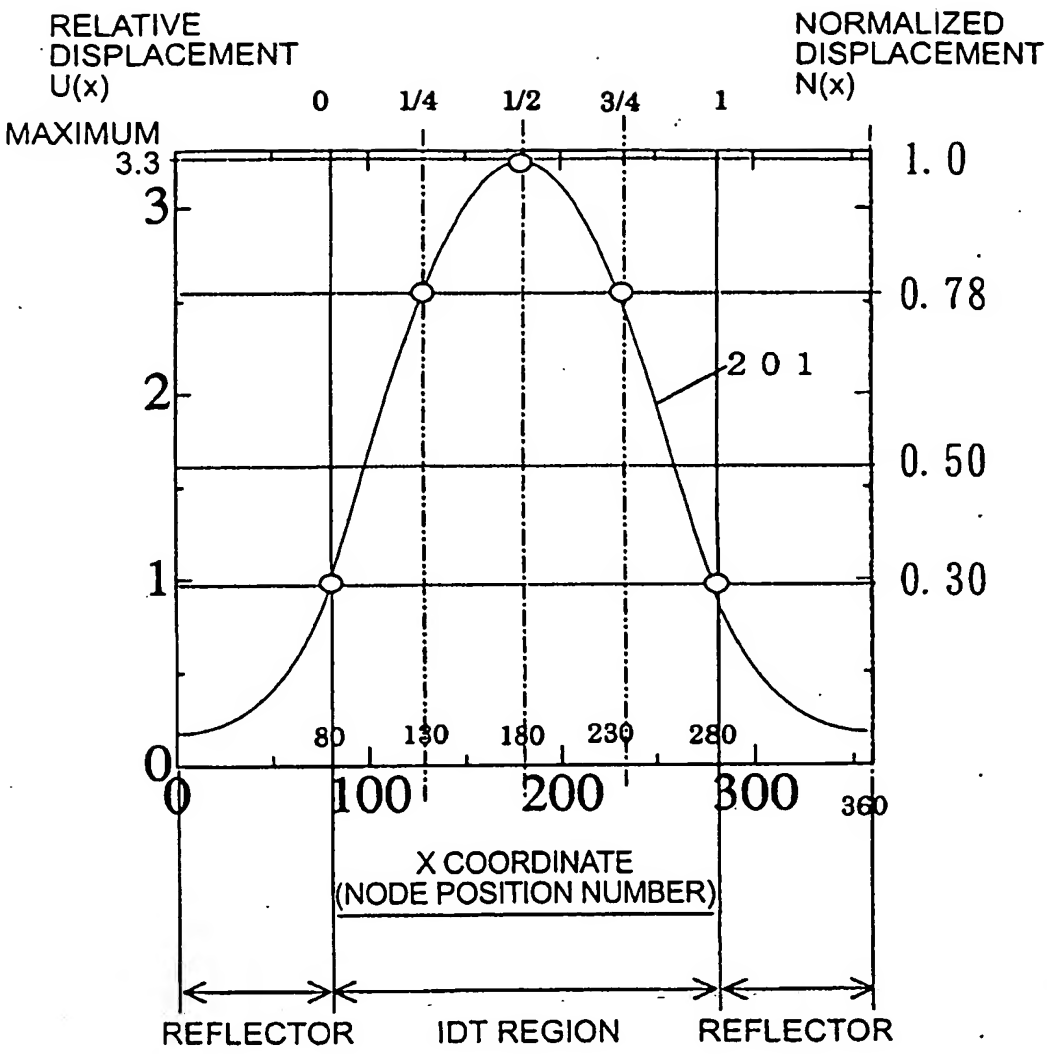

FIG. 2
RELATED ART

Approved for Entry 5/11/05 BS

OIPE FEB 24 2005 PATENT & TRADEMARK OFFICE JC08

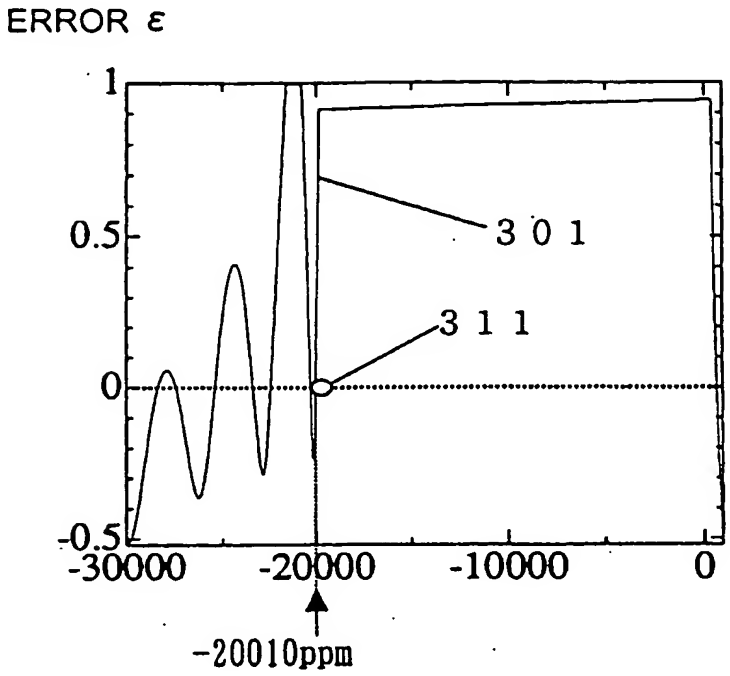

FIG. 3A
RELATED ART

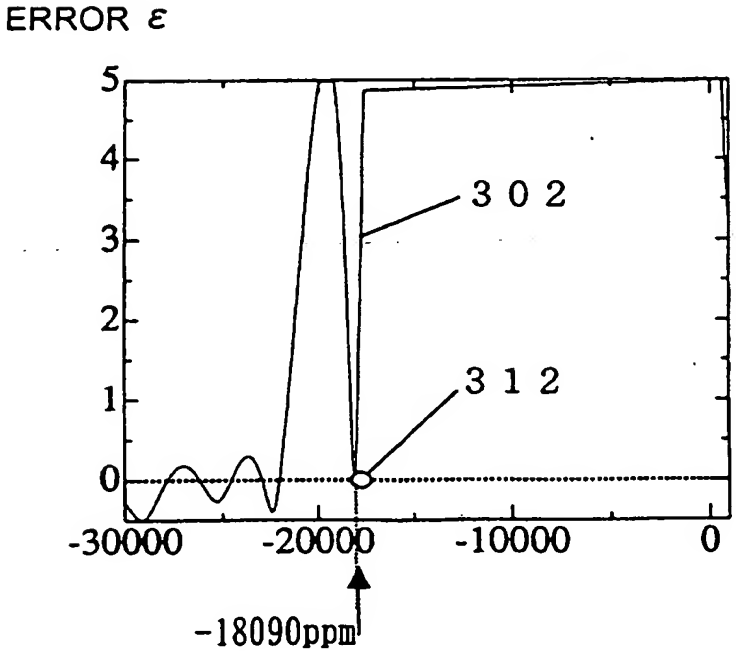

FIG. 3B